INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/001486

CLASSIFICATION OF SUBJECT MATTER

IPC7 A63H 27/127

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC A63H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
х - ч	US 4,065,873 A (ROBERT ALEXANDER JONES) 3 January 1978, see the whole document.	1, 2, 4			
Y	JP 3036829 U (KYOUSHOU INC.) 12 February 1997 See the whole document	1, 2, 4			
Y	KR 2002-20562 A (SHIN, DUCK HO) 13 March 2002 See the whole document	6, 7			
A	KR 1999-14324 U (UHAN HITECH INC.) 26 April 1999 See the whole document	1			

	Special categories of cited documents:	"T"	later document published after the international filing date or priorit
/ "	document defining the general state of the art which is not considered		date and not in conflict with the application but cited to understar
	to be of particular relevance		the principle or theory underlying the invention
5"	earlier application or patent but published on or after the international	"X"	document of particular relevance; the claimed invention cannot be

document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

Further documents are listed in the continuation of Box C.

document referring to an oral disclosure, use, exhibition or other

document published prior to the international filing date but later than the priority date claimed

considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

*& document member of the same patent family

See patent family annex.

Date of the actual completion of the international search

10 JANUARY 2005 (10.01.2005)

Date of mailing of the international search report

12 JANUARY 2005 (12.01.2005)

Name and mailing address of the ISA/KR



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